CURRICULUM VITAE

Kyle Robert Stewart

CONTACT INFORMATION

Jet Propulsion Laboratory

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Pasadena, CA 91109 USA

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Citizenship: United States

RESEARCH INTERESTS

Theoretical Cosmology; Galaxy Formation & Evolution; Dark Matter; Cosmological Simulations; Galaxy Simulations; Galaxy Mergers

EDUCATION

Doctor of Philosophy in Physics
University of California, Irvine

Irvine, California

Master of Science in Physics 2006

University of California, Irvine

Irvine, California

Bachelor of Science in Astrophysics 2004

University of California, Los Angeles Los Angeles, California

RESEARCH EXPERIENCE

NASA Postdoctoral Program (NPP) Fellow

Jet Propulsion Laboratory

2010—present

Pasadena, California

NPP Advisor: Leonidas Moustakas, Ph.D.

Graduate Student Researcher
University of California, Irvine

2005–2010

Irvine, California

PI: James Bullock, Ph.D.

Undergraduate Research Assistant 2003–2004

University of California, Los Angeles

Los Angeles, California

PI: Matt Malkan, Ph.D.

TECHNICAL SKILLS
Operating Systems:

Proficient in: Windows, Linux, Mac OS X

Programming & Software: Proficient in: IDL, TIPSY

Familiar with: C++, Java, Mathematica, PKDGRAV, GASOLINE

TEACHING EXPERIENCE

Teaching Assistant: Introduction to Astronomy
University of California, Irvine: Course 20A

Spring 2006

Irvine, California

3 discussion sections, grading, office hours

Teaching Assistant: Cosmology Winter 2006

4 discussion sections, grading, office hours

Teaching Assistant: Classical Physics Spring 2005

University of California, Irvine: Courses 7B, 7LB

Irvine, California

2 discussion sections, grading, office hours 3 tutorial labs, office hours, tutorial center

Teaching Assistant: Basic Physics Lab II Winter 2005

University of California, Irvine: Course 3LB

Irvine, California

3 experimental laboratory sections, grading, office hours

TA: Fundamentals of Experimental Physics Fall 2004

University of California, Irvine: Course 52A Irvine, California

3 experimental laboratory sections, grading, office hours

OUTREACH

University of California, Irvine 2008

Participated in presentations to local elementary schools

SELECTED HONORS AND AWARDS

NASA Postdoctoral Program (NPP) Fellowship 2009

PUBLICATIONS AND PRE-PRINTS

Mg II Absorption Systems in a Cosmological Context K.R. Stewart, T. Kaufmann, J. Bullock, E. Barton, J. Diemand, L. Mayer, P. Madau, J. Wadsley, A. Maller (tentative title and author list), in prep.

Stealth Galaxies in the Halo of the Milky Way J.S. Bullock, K.R. Stewart, M. Kaplinghat, E.J. Tollerud, ApJ submitted, ArXiv:0912.1873, 2009

Mergers and Bulge Formation in Lambda-CDM: Which Mergers Matter? P. Hopkins, K. Bundy, D. Croton, L. Hernquist, D. Keres, S. Kochfar, K.R. Stewart, A. Wetzel, and J. Younger, MNRAS submitted, 2009

Invisible Major Mergers: Why the Definition of a Galaxy "Merger Ratio" Matters K.R. Stewart, ArXiv:0902.2214 [astro-ph], to appear in proceedings of "Galaxy Evolution: Emerging Insights and Future Challenges," 2009

Gas-rich Mergers in LCDM: Disk Survivability and the Baryonic Assembly of Galaxies K.R. Stewart, J.S. Bullock, R.H. Wechsler, and A.H. Maller, ApJ, 702, 307, 2009

The Effects of Gas on Morphological Transformation in Mergers: Implications for Bulge and Disk Demographics P.F. Hopkins, R.S. Somerville, T.J. Cox, L. Hernquist, S. Jogee, D. Keres, C.P. Ma, B. Robertson, and **K.R. Stewart**, MNRAS, 397, 802, **2009**

Galaxy Mergers and Dark Matter Halo Mergers in LCDM: Mass, Redshift, and Mass-Ratio Dependence K.R. Stewart, J.S. Bullock, E.J. Barton, R.H. Wechsler, ApJ, 702, 1005, 2009

Mergers and Disk Survival in LCDM J.S. Bullock, K.R. Stewart, and C.W. Purcell, Invited Contribution, IAU Symposium 254, 2008

The Assembly of Galaxy Clusters J.C. Berrier, K.R. Stewart, C.W. Purcell, E.J. Barton, and R.H. Wechsler, ApJ, 690, 1292, 2008

A Candidate Brightest Proto-Cluster Galaxy at z=3.03 J. Cooke, E.J. Barton, J.S. Bullock, **K.R. Stewart**, and A.M. Wolfe, ApJ, 681, 57, **2008**

Merger Histories of Galaxy Halos and Implications for Disk Survival K.R. Stewart, J.S. Bullock, R.H. Wechsler, A.H. Maller, and A.R. Zentner, ApJ, 653, 597, 2008

SEMINARS AND COLLOQUIA

Merger Histories of LCDM Galaxies: Disk Survivability and the Deposition of Cold Gas via Mergers, Kavli Institute for Cosmological Physics, Open Group Seminar, The University of Chicago. Nov. 2008.

Merger Histories of LCDM Galaxies: Disk Survivability and the Deposition of Cold Gas via Mergers, Center for Cosmology and AstroParticle Physics Seminar, the Ohio State University, Oct. 2008.

Merger Histories of LCDM Galaxies: Disk Survivability and the Deposition of Cold Gas via Mergers, Berkeley Cosmology Group Seminar, University of California, Berkeley, Sept. 2008.

Merger Histories of LCDM Galaxies: Disk Survivability and the Deposition of Cold Gas via Mergers, KIPAC tea talk, Kavli Institute for Particle Astrophysics and Cosmology, Stanford University, Aug. 2008.

CONTRIBUTED CONFERENCE TALKS (OR POSTERS)

Cloud Formation in a Cosmological Context and Implications for Absorption-Selected Galaxies, Hunting for the Dark: the Hidden Side of Galaxy Formation, Malta, Oct. 2009 (Poster)

Cool Halo Gas in a Cosmological Context, Galaxy Formation Workshop, University of California, Santa Cruz, Aug. 2009.

Merger Histories of LCDM Galaxies: Disk Survivability and the Deposition of Cold Gas via Mergers, 213th AAS Meeting, Long Beach, CA, Jan. 2009.

Merger Histories of LCDM Galaxies: Gas Fractions and Disk Survivability, 8th Annual Theoretical Astrophysics in Southern California Meeting, University of California, Irvine, Oct. 2008.

Galaxy Merger Fractions and Disk Survivability, Back to the Galaxy II (Scientific Hightlights Section), University of California, Santa Barbara, Oct. 2008.

Merger Histories of DM Halos and the Baryonic Assembly of Galaxies, Galaxy Formation Workshop, University of California, Santa Cruz, Aug. 2008.

Merger Histories of Galaxy Halos, and Implications for Disk Survival, Galactic Structure and Structure of Galaxies Workshop, Ensenada, Baja California, Mexico, Mar. 2008 (Poster)

Merger Histories of Galaxy-sized Dark Matter Halos, and Implications for Disk Survival, 7th Annual Theoretical Astrophysics in Southern California Meeting, University of California, Los Angeles, Nov. 2007

Merger Histories of Galaxy-sized Dark Matter Halos, Galaxy Formation Workshop, University of California, Santa Cruz, Aug. 2007